DOCUMENT RESUME

ED 287 690 SE 048 644

TITLE Math. Grades 7 and 8, Forms A and B. West Bloomfield School District Outcome Based Mastery Learning Program.
PUB DATE [87]
NOTE 93p.
PUB TYPE Tests/Evaluation Instruments (160)

EDRS PRICE MF01/PC04 Plus Postage.
DESCRIPTORS *Academic Achievement; *Grade 7; *Grade 8; Junior High Schools; *Mastery Learning; *Mathematical Concepts; Mathematics Education; *Mathematics Instruction; *Mathematics Skills; Secondary School Mathematics
IDENTIFIERS *West Bloomfield Schools MI

ABSTRACT

These materials contain the test booklets and answer keys to the mathematics mastery program of the West Bloomfield Schools (Michigan). Two booklets, forms A and B, were developed for grade 7 and grade 8. The answer keys are on separate sheets. The mastery program is based on textbook and supplemental materials. (TW)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED287690

Grade 7
Form A

MATH

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

X This document has been reproduced as received from the person or organization originating it.

☐ Minor changes have been made to improve reproduction quality

• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

Bea
Kandalaris

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

WEST BLOOMFIELD SCHOOL DISTRICT

OUTCOME BASED

MASTERY

LEARNING PROGRAM

SE 048 644

BEST COPY AVAILABLE

1. Which is true?

A. $7 < -3$ **C.** $2 < -1$

B. $-4 < -6$ **D.** $-5 < -2$

---

2. Which is true?

A. $-4 > 5$ **C.** $12 > -7$

B. $-3 > -1$ **D.** $0 > 7$

---

3. Which is true?

A. $-1 < 1$ **C.** $9 < -9$

B. $-11 < -12$ **D.** $-5 < -7$

---

4. Which is true?

A. $0 > 10$ **C.** $-6 > -1$

B. $-5 > -8$ **D.** $-2 > 1$

5. Which is true?

A. $\frac{3}{7} < \frac{3}{8}$ **C.** $\frac{2}{5} < \frac{2}{9}$

B. $\frac{1}{4} < \frac{1}{2}$ **D.** $\frac{5}{6} < \frac{5}{8}$

---

6. Which is true?

A. $\frac{4}{7} < \frac{4}{5}$ **C.** $\frac{1}{6} < \frac{1}{8}$

B. $\frac{3}{8} < \frac{3}{10}$ **D.** $\frac{7}{11} < \frac{7}{12}$

---

7. Which is true?

A. $\frac{2}{9} > \frac{2}{11}$ **C.** $\frac{2}{5} > \frac{2}{3}$

B. $\frac{5}{8} > \frac{5}{7}$ **D.** $\frac{6}{8} > \frac{6}{7}$

---

8. Which is true?

A. $\frac{2}{4} > \frac{2}{3}$ **C.** $\frac{1}{5} > \frac{1}{8}$

B. $\frac{3}{7} > \frac{3}{4}$ **D.** $\frac{4}{9} > \frac{4}{5}$

9. Which is true?

A. $\frac{3}{4} < \frac{1}{3}$ **C.** $\frac{2}{3} < \frac{1}{10}$

B. $\frac{5}{7} < \frac{2}{5}$ **D.** $\frac{1}{9} < \frac{5}{8}$

---

10. Which is true?

A. $\frac{1}{5} > \frac{2}{3}$ **C.** $\frac{4}{7} > \frac{1}{3}$

B. $\frac{2}{5} > \frac{7}{9}$ **D.** $\frac{3}{8} > \frac{6}{7}$

---

11. Which is true?

A. $\frac{4}{5} < \frac{1}{3}$ **C.** $\frac{1}{6} < \frac{2}{3}$

B. $\frac{4}{7} < \frac{2}{9}$ **D.** $\frac{3}{4} < \frac{1}{8}$

---

12. Which is true?

A. $\frac{5}{8} > \frac{1}{6}$ **C.** $\frac{1}{3} > \frac{4}{5}$

B. $\frac{1}{5} > \frac{3}{4}$ **D.** $\frac{2}{5} > \frac{2}{3}$

ADD

13. $\frac{1}{3} + \frac{2}{5}$

A. $\frac{3}{8}$
B. $\frac{11}{8}$
C. $\frac{3}{15}$
D. $\frac{11}{15}$

---

14. $\frac{3}{8} + \frac{1}{4}$

A. $\frac{4}{32}$
B. $\frac{4}{8}$
C. $\frac{5}{8}$
D. $\frac{4}{12}$

---

15. $\frac{2}{7} + \frac{1}{4}$

A. $\frac{3}{28}$
B. $\frac{3}{11}$
C. $\frac{15}{11}$
D. $\frac{15}{28}$

---

16. $\frac{1}{2} + \frac{2}{5}$

A. $\frac{9}{10}$
B. $\frac{2}{7}$
C. $\frac{3}{7}$
D. $\frac{3}{10}$

SUBTRACT

17. $\frac{7}{9} - \frac{1}{2}$

A. $\frac{5}{18}$
B. $\frac{6}{18}$
C. $\frac{6}{7}$
D. $\frac{6}{9}$

---

18. $\frac{3}{5} - \frac{2}{7}$

A. $\frac{1}{35}$
B. $\frac{11}{35}$
C. $\frac{1}{2}$
D. $\frac{11}{7}$

---

19. $\frac{2}{3} - \frac{1}{6}$

A. $\frac{1}{6}$
B. $\frac{3}{6}$
C. $\frac{2}{6}$
D. $\frac{2}{3}$

---

20. $\frac{8}{9} - \frac{2}{3}$

A. $\frac{2}{9}$
B. $\frac{6}{6}$
C. $\frac{6}{9}$
D. $\frac{6}{27}$

MULTIPLY

21.

$5\frac{1}{2} \times 1\frac{3}{4}$

A. $9\frac{5}{8}$
B. $6\frac{4}{6}$
C. $\frac{8}{77}$
D. $5\frac{3}{8}$

22.

$1\frac{2}{7} \times 2\frac{3}{4}$

A. $2\frac{3}{14}$
B. $3\frac{5}{11}$
C. $2\frac{6}{28}$
D. $3\frac{15}{28}$

23.

$2\frac{1}{3} \times 1\frac{2}{5}$

A. $\frac{15}{49}$
B. $3\frac{4}{15}$
C. $2\frac{2}{15}$
D. $3\frac{2}{8}$

24.

$2\frac{1}{4} \times 3\frac{2}{3}$

A. $6\frac{1}{6}$
B. $8\frac{1}{4}$
C. $6\frac{2}{12}$
D. $8\frac{3}{7}$

25. Reduce to lowest terms: $\frac{6}{9}$

A. $\frac{2}{3}$ **C.** $1\frac{1}{2}$

B. $\frac{3}{5}$ **D.** $\frac{1}{3}$

---

26. Reduce to lowest terms: $\frac{10}{25}$

A. $\frac{2}{5}$ **C.** $\frac{5}{15}$

B. $\frac{2}{10}$ **D.** $2\frac{1}{2}$

---

27. Reduce to lowest terms: $\frac{12}{14}$

A. $1\frac{1}{6}$ **C.** $\frac{3}{7}$

B. $\frac{3}{4}$ **D.** $\frac{6}{7}$

---

28. Reduce to lowest terms: $\frac{4}{16}$

A. $\frac{1}{4}$ **C.** $\frac{2}{8}$

B. $\frac{1}{2}$ **D.** 4

29. Identify the mixed number for $\frac{13}{5}$

A. $\frac{3}{5}$ **C.** $2\frac{3}{13}$

B. $2\frac{3}{5}$ **D.** $\frac{3}{13}$

---

30. Identify the mixed number for $\frac{26}{7}$

A. 3 **C.** $\frac{5}{7}$

B. $3\frac{5}{7}$ **D.** $3\frac{5}{26}$

---

31. Identify the mixed number for $\frac{41}{10}$

A. $3\frac{11}{42}$ **C.** $4\frac{1}{10}$

B. $4\frac{1}{42}$ **D.** $\frac{1}{10}$

---

32. Identify the mixed number for $\frac{31}{16}$

A. $1\frac{15}{31}$ **C.** $2\frac{1}{31}$

B. $2\frac{1}{16}$ **D.** $1\frac{15}{16}$

33. Place the decimal point for the following whole number: 210

A. .210 **C.** 21.0.

B. 2.10 **D.** 210.

---

34. Place the decimal point for the following whole number: 53

A. .53 **C.** 53.

B. 5.3 **D.** 530.

---

35. Place the decimal point for the following whole number: 2463

A. 2463. **C.** 246.3

B. 24.63 **D.** .2463

---

36. Place the decimal point for the following whole number: 7

A. .7 **C.** .07

B. 7. **D.** 70.

ADD

37.

21.6 + 9 + 4.52

A. 3.512
B. 35.12
C. 67.7
D. 26.21

38.

17 + .01 + 5.6

A. 22.61
B. .074
C. .74
D. 2.261

39.

.868 + 3 + 1.42

A. 1.013
B. 5.288
C. .1013
D. .05288

40.

6.7 + 4.22 + 15

A. 5.04
B. 11.07
C. 25.92
D. .504

SUBTRACT

41.

12.4 – 3.17

A. 2.07
B. 9.37
C. 9.33
D. 9.23

42.

.316 – .25

A. .66
B. .291
C. .066
D. .146

43.

.04 – .027

A. .013
B. .027
C. .023
D. .13

44.

5.69 – 4.442

A. 1.252
B. .01248
C. 1.248
D. .01252

MULTIPLY

45. 2.4 × .03

A. .072
B. 7.2
C. 2.43
D. .72

---

46. 7.5 × .32

A. .375
B. 2.4
C. 3.75
D. .0024

---

47. .9 × 5.8

A. 6.7
B. .522
C. 5.22
D. .67

---

48. .06 × .7

A. .76
B. 420
C. .042
D. .42

49.

Find 14% of 88

A. 6.28
B. 1232
C. 123.2
D. 12.32

50.

Find 6% of 500

A. 3000
B. 300
C. $83\frac{1}{3}$
D. 30

51.

Find 85% of 460

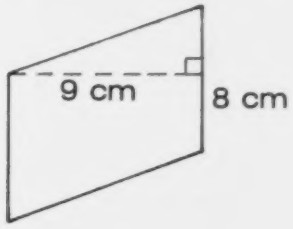
A. 391
B. 545
C. 3910
D. 3.91

52.

Find 40% of 45

A. 1.8
B. 18
C. 85
D. 8.5

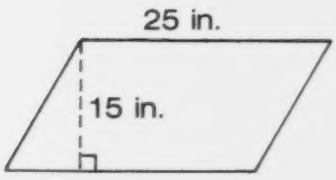
53. Find the area of this parallelogram:



A. 72 cm^2
B. 144 cm^2
C. 34 cm^2
D. 56 cm^2

---

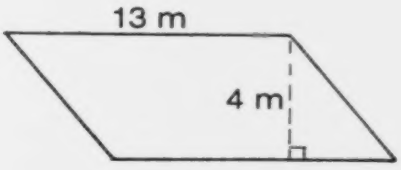
54. Find the area of this parallelogram:



A. 750 $in.^2$
B. 80 $in.^2$
C. 375 $in.^2$
D. 20 $in.^2$

---

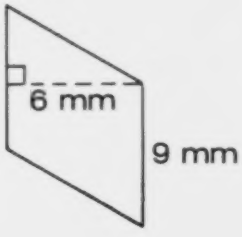
55. Find the area of this parallelogram:



A. 42 m^2
B. 52 m^2
C. 34 m^2
D. 104 m^2

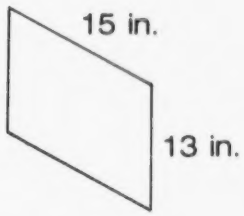
---

56. Find the area of this parallelogram:



A. 54 mm^2
B. 56 mm^2
C. 30 mm^2
D. 108 mm^2

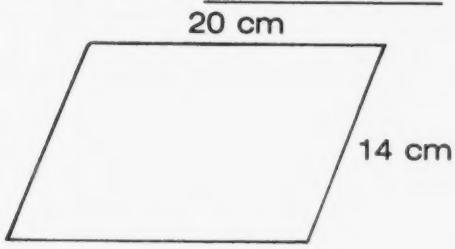
57. Find the perimeter of this parallelogram:



A. 195 in.
B. 56 in.
C. 153 in.
D. 28 in.

---

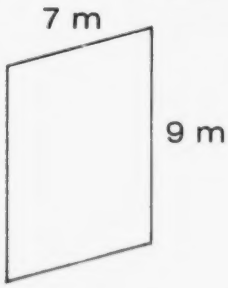
58. Find the perimeter of this parallelogram:



A. 280 in.
B. 34 cm
C. 140 in.
D. 68 cm

---

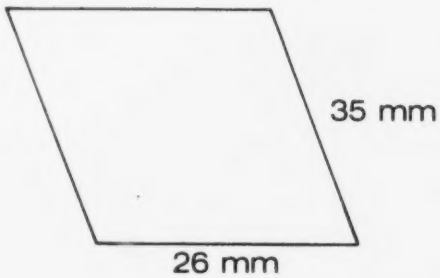
59. Find the perimeter of this parallelogram:



A. 16 m
B. 32 m
C. 63 m
D. 126 m

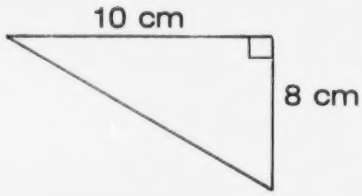
---

60. Find the perimeter of this parallelogram:



A. 122 mm
B. 455 mm
C. 61 mm
D. 910 mm

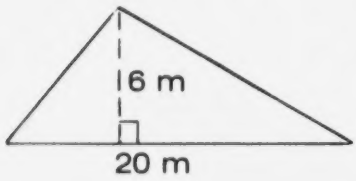
61. Find the area of this triangle:



A. 40 cm²
B. 36 cm²
C. 18 cm²
D. 80 cm²

---

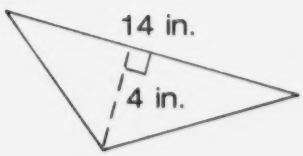
62. Find the area of this triangle:



A. 13 m²
B. 26 m²
C. 120 m²
D. 60 m²

---

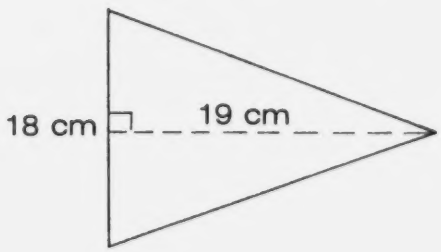
63. Find the area of this triangle:



A. 9 in.²
B. 18 in.²
C. 28 in.²
D. 56 in.²

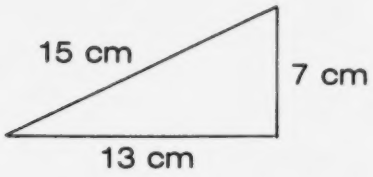
---

64. Find the area of this triangle:



A. 37 cm²
B. 74 cm²
C. 342 cm²
D. 171 cm²

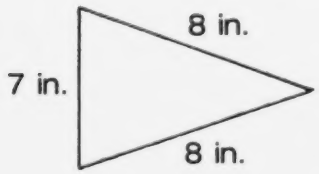
65. Find the perimeter of this triangle:



A. 14 cm
B. 35 cm
C. 70 cm
D. 91 cm

---

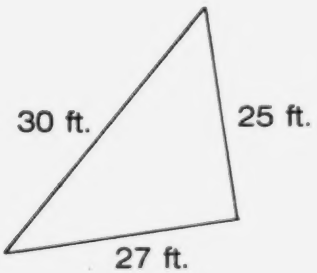
66. Find the perimeter of this triangle:



A. 46 in.
B. 56 in.
C. 23 in.
D. 64 in.

---

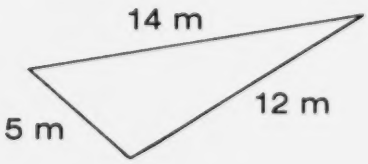
67. Find the perimeter of this triangle:



A. 750 ft.
B. 675 ft.
C. 41 ft.
D. 82 ft.

---

68. Find the perimeter of this triangle:



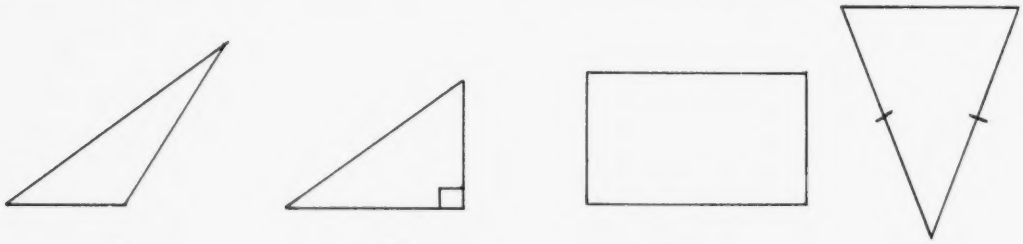
A. 840 m
B. 31 m
C. 70 m
D. 62 m

69. Which figure is an equilateral triangle?

A. B. C. D.

---

70. Which figure is an isosceles triangle?



A. B. C. D.

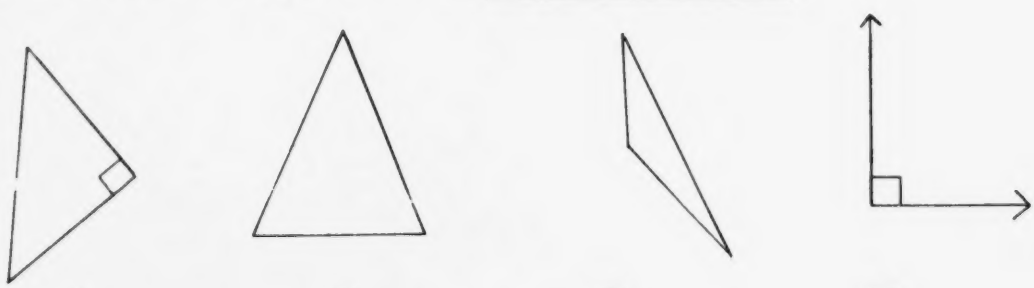
---

71. Which figure shows a right angle?

A. B. C. D.

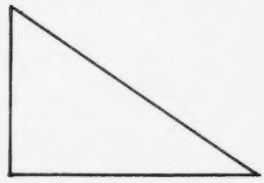
---

72. Which figure is a right triangle?



A. B. C. D.

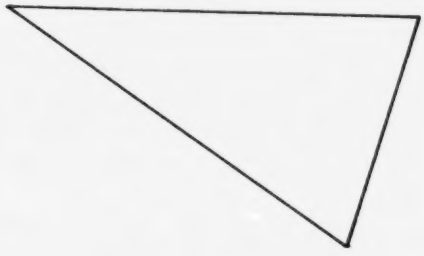
73. What is the sum of the measures of the three angles of this triangle?



A. 60°
B. 90°
C. 180°
D. 360°

---

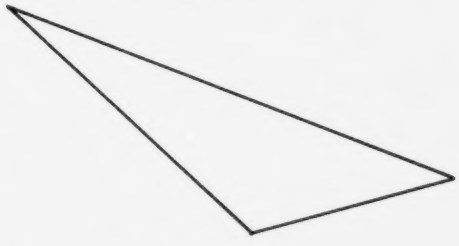
74. What is the sum of the measures of the three angles of this triangle?



A. 15°
B. 45°
C. 100°
D. 180°

---

75. What is the sum of the measures of the three angles of this triangle?



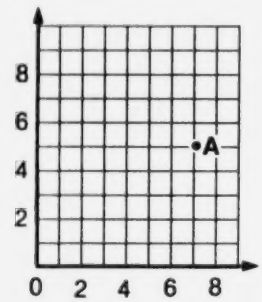
A. 180°
B. 90°
C. 45°
D. 360°

---

76. What is the sum of the measures of the three angles of this triangle?

A. 45°
B. 180°
C. 360°
D. 380°

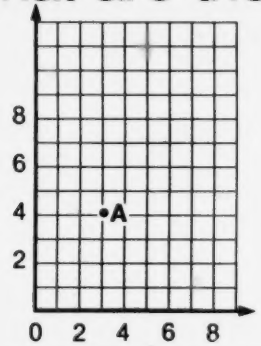
77. What are the coordinates of point A?



A. (5,6)
B. (7,5)
C. (5,7)
D. (6,4)

---

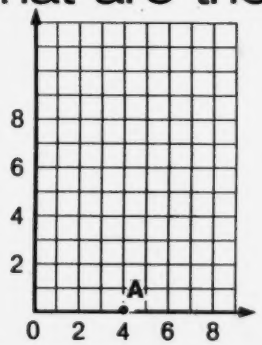
78. What are the coordinates of point A?



A. (3,0)
B. (4,3)
C. (3,4)
D. (0,4)

---

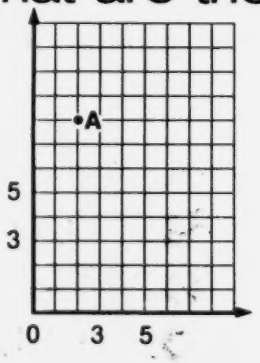
79. What are the coordinates of point A?



A. (5,5)
B. (0,5)
C. (5,0)
D. (4,0)

---

80. What are the coordinates of point A?



A. (2,8)
B. (3,8)
C. (8,3)
D. (8,2)

Grade 7 - Level A Items 1 thru 48

MM3-8 ANSW. KEY 71 GRADE 7A 10/04/87

#	OBJ-IT	ANS	#	OBJ-IT	ANS	#	OBJ-IT	ANS
			18	7005-18	2	36	7009-36	2
1	7001-1	4	19	7005-19	2	37	7010-37	2
2	7001-2	3	20	7005-20	1	38	7010-38	1
3	7001-3	1	21	7006-21	1	39	7010-39	2
4	7001-4	2	22	7006-22	4	40	7010-40	3
5	7002-5	2	23	7006-23	2	41	7011-41	4
6	7002-6	1	24	7006-24	2	42	7011-42	3
7	7002-7	1	25	7007-25	1	43	7011-43	1
8	7002-8	3	26	7007-26	1	44	7011-44	3
9	7003-9	4	27	7007-27	4	45	7012-45	1
10	7003-10	3	28	7007-28	1	46	7012-46	2
11	7003-11	3	29	7008-29	2	47	7012-47	3
12	7003-12	1	30	7008-30	2	48	7012-48	3
13	7004-13	4	31	7008-31	3			
14	7004-14	3	32	7008-32	4			
15	7004-15	4	33	7009-33	4			
16	7004-16	1	34	7009-34	3			
17	7005-17	1	35	7009-35	1			

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 7 - Level A Items 49 thru 80

MM3-8 ANSW. KEY 72 GRADE 7A 10/04/87

#	OBJ-IT	ANS	#	OBJ-IT	ANS	#	OBJ-IT	ANS
			18	7017-66	3			
1	7013-49	4	19	7017-67	4			
2	7013-50	4	20	7017-68	2			
3	7013-51	1	21	7018-69	2			
4	7013-52	2	22	7018-70	4			
5	7014-53	1	23	7018-71	1			
6	7014-54	3	24	7018-72	1			
7	7014-55	2	25	7019-73	3			
8	7014-56	1	26	7019-74	4			
9	7015-57	2	27	7019-75	1			
10	7015-58	4	28	7019-76	2			
11	7015-59	2	29	7020-77	2			
12	7015-60	1	30	7020-78	3			
13	7016-61	1	31	7020-79	4			
14	7016-62	4	32	7020-80	1			
15	7016-63	3						
16	7016-64	4						
17	7017-65	2						

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 7
Form B

MATH

WEST BLOOMFIELD SCHOOL DISTRICT

OUTCOME BASED

MASTERY

LEARNING PROGRAM

1. Which is true?

A. $-3 > -5$ **C.** $-4 > 9$

B. $-7 > -2$ **D.** $-6 > 3$

---

2. Which is true?

A. $-5 < -7$ **C.** $-1 < 3$

B. $-10 < -14$ **D.** $6 < -8$

---

3. Which is true?

A. $-8 > 6$ **C.** $-7 > -10$

B. $-12 > 0$ **D.** $-1 > 5$

---

4. Which is true?

A. $10 < -2$ **C.** $-11 < -12$

B. $-4 < 2$ **D.** $0 < -3$

5. Which is true?

A. $\frac{3}{7} > \frac{3}{5}$ **C.** $\frac{5}{8} > \frac{5}{6}$

B. $\frac{1}{3} > \frac{1}{2}$ **D.** $\frac{4}{7} > \frac{4}{9}$

---

6. Which is true?

A. $\frac{3}{5} > \frac{3}{4}$ **C.** $\frac{4}{7} > \frac{4}{5}$

B. $\frac{2}{9} > \frac{2}{11}$ **D.** $\frac{1}{6} > \frac{1}{3}$

---

7. Which is true?

A. $\frac{4}{11} < \frac{4}{12}$ **C** $\frac{3}{10} < \frac{3}{4}$

B. $\frac{1}{5} < \frac{1}{7}$ **D** $\frac{7}{8} < \frac{7}{10}$

---

8. Which is true?

A $\frac{1}{3} < \frac{1}{2}$ **C** $\frac{2}{3} < \frac{2}{5}$

B $\frac{5}{9} < \frac{5}{10}$ **D** $\frac{6}{7} < \frac{6}{10}$

9. Which is true?

A. $\frac{5}{8} > \frac{1}{6}$ **C.** $\frac{1}{3} > \frac{4}{5}$

B. $\frac{1}{5} > \frac{3}{4}$ **D.** $\frac{2}{5} > \frac{2}{3}$

---

10. Which is true?

A. $\frac{4}{5} < \frac{1}{3}$ **C.** $\frac{1}{6} < \frac{2}{3}$

B. $\frac{4}{7} < \frac{2}{9}$ **D.** $\frac{3}{4} < \frac{1}{8}$

---

11. Which is true?

A. $\frac{1}{5} > \frac{2}{3}$ **C.** $\frac{4}{7} > \frac{1}{3}$

B. $\frac{2}{5} > \frac{7}{9}$ **D.** $\frac{3}{8} > \frac{6}{7}$

---

12. Which is true?

A. $\frac{3}{4} < \frac{1}{3}$ **C.** $\frac{2}{3} < \frac{1}{10}$

B. $\frac{5}{7} < \frac{2}{5}$ **D.** $\frac{1}{9} < \frac{5}{8}$

ADD

13. $\frac{1}{5} + \frac{2}{3}$

A. $\frac{3}{15}$
B. $\frac{3}{8}$
C. $\frac{7}{15}$
D. $\frac{13}{15}$

---

14. $\frac{3}{4} + \frac{1}{6}$

A. $\frac{4}{10}$
B. $\frac{4}{24}$
C. $\frac{11}{12}$
D. $\frac{4}{12}$

---

15. $\frac{1}{2} + \frac{2}{5}$

A. $\frac{9}{10}$
B. $\frac{2}{7}$
C. $\frac{3}{7}$
D. $\frac{3}{10}$

---

16. $\frac{3}{8} + \frac{1}{4}$

A. $\frac{1}{3}$
B. $\frac{4}{8}$
C. $\frac{5}{8}$
D. $\frac{4}{12}$

SUBTRACT

17. $\frac{7}{8} - \frac{1}{4}$

A. $\frac{3}{2}$
B. $\frac{5}{8}$
C. $\frac{9}{8}$
D. $\frac{6}{4}$

---

18. $\frac{9}{10} - \frac{2}{5}$

A. $\frac{5}{10}$
B. $\frac{7}{5}$
C. $\frac{13}{10}$
D. $\frac{4}{5}$

---

19. $\frac{7}{9} - \frac{1}{2}$

A. $\frac{5}{18}$
B. $\frac{6}{18}$
C. $\frac{6}{7}$
D. $\frac{6}{9}$

---

20. $\frac{2}{3} - \frac{1}{6}$

A. $\frac{5}{6}$
B. $\frac{3}{6}$
C. $\frac{2}{6}$
D. $\frac{2}{3}$

30

MULTIPLY

21.

$2\frac{1}{3} \times 1\frac{2}{5}$

A. $\frac{15}{49}$
B. $3\frac{4}{15}$
C. $2\frac{2}{15}$
D. $3\frac{2}{8}$

22.

$3\frac{1}{2} \times 2\frac{2}{3}$

A. $9\frac{1}{3}$
B. $6\frac{2}{6}$
C. $\frac{3}{28}$
D. $6\frac{1}{3}$

23.

$4\frac{1}{5} \times 1\frac{2}{3}$

A. $\frac{1}{7}$
B. $4\frac{2}{15}$
C. 7
D. $5\frac{3}{8}$

24.

$5\frac{1}{2} \times 1\frac{3}{4}$

A. $5\frac{3}{8}$
B. $6\frac{4}{6}$
C. $\frac{8}{77}$
D. $9\frac{5}{8}$

31

25. Reduce to lowest terms: $\frac{6}{14}$

A. $\frac{3}{14}$ **C.** $2\frac{2}{14}$

B. $\frac{6}{7}$ **D.** $\frac{3}{7}$

---

26. Reduce to lowest terms: $\frac{9}{21}$

A. $\frac{3}{11}$ **C.** $\frac{3}{7}$

B. $2\frac{3}{21}$ **D.** $\frac{6}{21}$

---

27. Reduce to lowest terms: $\frac{4}{20}$

A. 5 **C.** $\frac{1}{5}$

B. $\frac{2}{20}$ **D.** $\frac{4}{10}$

---

28. Reduce to lowest terms: $\frac{11}{33}$

A. $\frac{1}{3}$ **C.** 3

B. $\frac{1}{11}$ **D.** $\frac{3}{11}$

29. Identify the mixed number for: $\frac{26}{5}$

A. $5\frac{1}{26}$ **C.** $5\frac{1}{5}$

B. $\frac{1}{6}$ **D.** $\frac{1}{26}$

---

30. Identify the mixed number for: $\frac{17}{6}$

A. $\frac{5}{6}$ **C.** $2\frac{1}{6}$

B. $2\frac{5}{6}$ **D.** $2\frac{5}{17}$

---

31. Identify the mixed number for: $\frac{30}{29}$

A. $1\frac{1}{29}$ **C.** $\frac{1}{29}$

B. $\frac{1}{30}$ **D.** $1\frac{1}{30}$

---

32. Identify the mixed number for: $\frac{22}{13}$

A. $\frac{9}{22}$ **C.** $1\frac{9}{13}$

B. $1\frac{9}{22}$ **D.** $\frac{9}{13}$

33. Place the decimal point in the following whole number: 475

A. .475 **C.** 47.5

B. 4.75 **D.** 475.

---

34. Place the decimal point in the following whole number: 27

A. .027 **C.** 27.

B. 2.7 **D.** 270.

---

35. Place the decimal point in the following whole number: 1251

A. .1251 **C.** 125.1

B. 12.51 **D.** 1251.

---

36. Place the decimal point in the following whole number: 4

A. .04 **C.** 4.

B. .4 **D.** 40.

ADD

37.

34.7 + .34 + 16

A. .397
B. 35.20
C. 51.04
D. 3.97

38.

.056 + 7 + 8.3

A. 1.46
B. 1.5356
C. .146
D. 15.356

39.

22 + 9.1 + .04

A. 31.14
B. .117
C. 3.114
D. 11.7

40.

.642 + .09 + 10

A. 10.732
B. .661
C. 6.61
D. 107.32

SUBTRACT

41.

72.5 – .13

A. .595
B. .713
C. 72.37
D. 72.43

42.

61.5 – 1.23

A. 4.92
B. 49.2
C. 60.27
D. 60.33

43.

37.8 – .12

A. 25.8
B. 37.68
C. 37.72
D. 37.92

44.

.036 – .02

A. 5.6
B. .034
C. .056
D. .016

MULTIPLY

45. .37 × 1.2

A. .444
B. 4.44
C. 44.4
D. 444

---

46. 2.5 × 3.7

A. 9.25
B. 25
C. 82.5
D. 92.5

---

47. .04 × 1.6

A. .064
B. .64
C. 6.4
D. 64

---

48. 7.3 × .45

A. .3285
B. 3.285
C. 32.85
D. 328.5

49.

Find 12% of 225

A. 27
B. 18.75
C. 1875
D. 2700

50.

Find 8% of 900

A. 112.5
B. 72
C. 720
D. 7.2

51.

Find 52% of 435

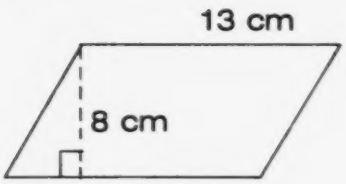
A. 2.262
B. 8.365
C. .8365
D. 226.2

52.

Find 3% of 88

A. 2.64
B. 26.4
C. 264
D. $29.\overline{3}$

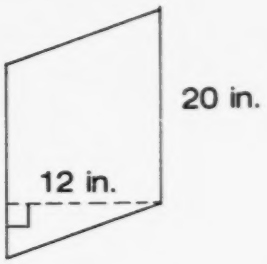
53. Find the <u>area</u> of this parallelogram:



A. 21 cm^2
B. 42 cm^2
C. 104 cm^2
D. 208 cm^2

---

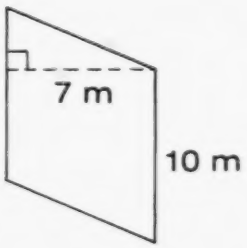
54. Find the <u>area</u> of this parallelogram:



A. 16 $in.^2$
B. 32 $in.^2$
C. 120 $in.^2$
D. 240 $in.^2$

---

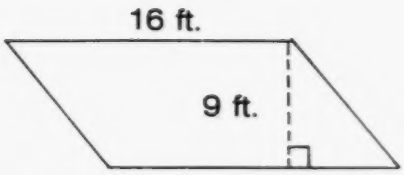
55. Find the <u>area</u> of this parallelogram:



A. 17 m^2
B. 35 m^2
C. 70 m^2
D. 140 m^2

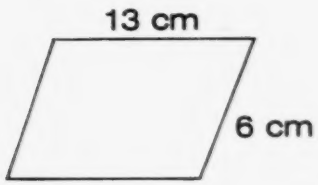
---

56. Find the <u>area</u> of this parallelogram:



A. 25 $ft.^2$
B. 50 $ft.^2$
C. 72 $ft.^2$
D. 144 $ft.^2$

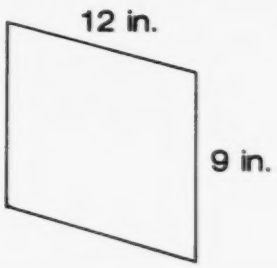
57. Find the perimeter of this parallelogram:



A. 19 cm
B. 38 cm
C. 39 cm
D. 78 cm

---

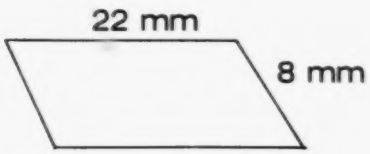
58. Find the perimeter of this parallelogram:



A. 21 in.
B. 42 in.
C. 54 in.
D. 108 in.

---

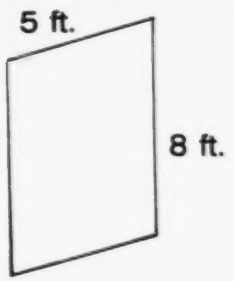
59. Find the perimeter of this parallelogram:



A. 30 mm
B. 176 mm
C. 352 mm
D. 60 mm

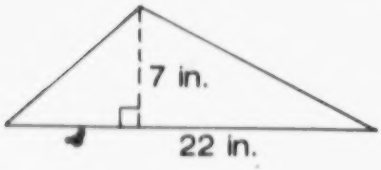
---

60. Find the perimeter of this parallelogram:



A. 26 ft.
B. 52 ft.
C. 40 ft.
D. 80 ft.

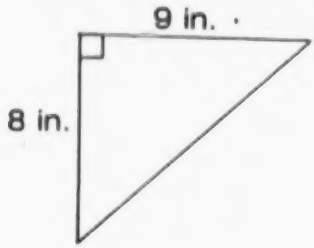
61. Find the area of this triangle:



A. 29 in.^{2}
B. 77 in.^{2}
C. 154 in.^{2}
D. 308 in.^{2}

---

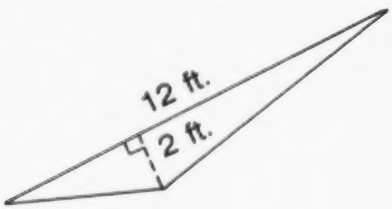
62. Find the area of this triangle:



A. 17 in.^{2}
B. 34 in.^{2}
C. 36 in.^{2}
D. 72 in.^{2}

---

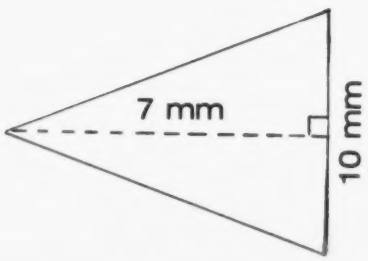
63. Find the area of this triangle:



A. 12 ft.^{2}
B. 14 ft.^{2}
C. 24 ft.^{2}
D. 48 ft.^{2}

---

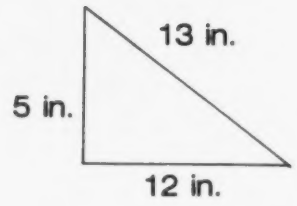
64. Find the area of this triangle:



A. 70 mm^2
B. 35 mm^2
C. 24 mm^2
D. 12 mm^2

41

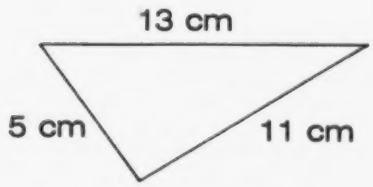
65. Find the perimeter of this triangle:



A. 30 in.
B. 60 in.
C. 390 in.
D. 780 in.

---

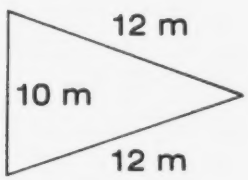
66. Find the perimeter of this triangle:



A. 29 cm
B. 55 cm
C. 58 cm
D. 715 cm

---

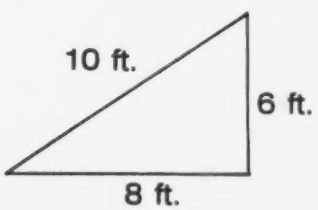
67. Find the perimeter of this triangle:



A. 34 m
B. 68 m
C. 1440 m
D. 720 m

---

68. Find the perimeter of this triangle:



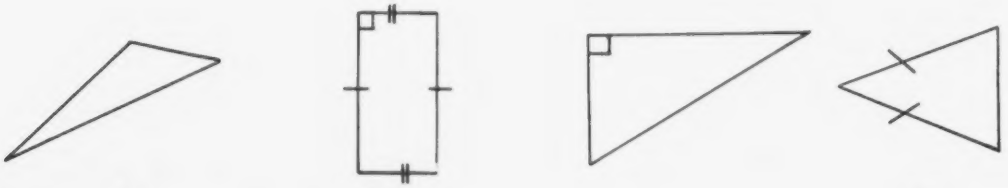
A. 12 ft.
B. 24 ft.
C. 80 ft.
D. 480 ft.

69. Which figure is an equilateral triangle?

A. B. C. D.

---

70. Which figure is an isosceles triangle?



A. B. C. D.

---

71. Which figure shows a right angle?

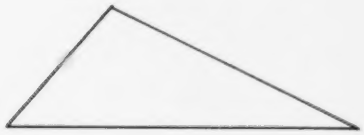
A. B. C. D.

---

72. Which figure is a right triangle?

A. B. C. D.

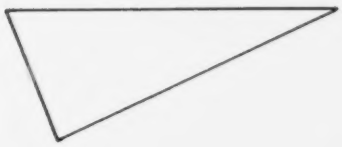
73. What is the sum of the measures of the three angles of this triangle?



A. 360°
B. 180°
C. 90°
D. 100°

---

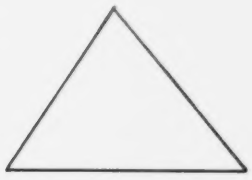
74. What is the sum of the measures of the three angles of this triangle?



A. 60°
B. 90°
C. 180°
D. 200°

---

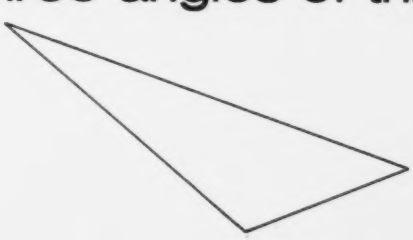
75. What is the sum of the measures of the three angles of this triangle?



A. 45°
B. 60°
C. 100°
D. 180°

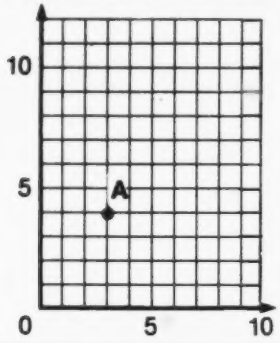
---

76. What is the sum of the measures of the three angles of this triangle?



A. 60°
B. 80°
C. 90°
D. 180°

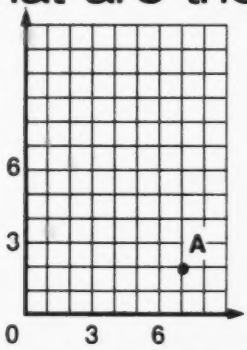
77. What are the coordinates of point A?



A. (4,5)
B. (4,3)
C. (5,4)
D. (3,4)

---

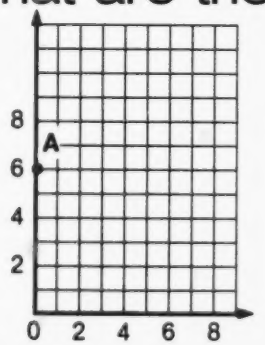
78. What are the coordinates of point A?



A. (7,2)
B. (8,3)
C. (3,8)
D. (2,7)

---

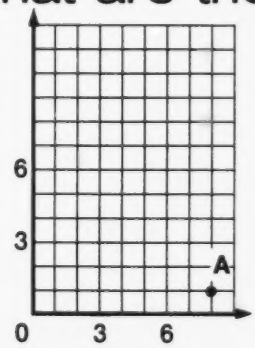
79. What are the coordinates of point A?



A. (6,0)
B. (0,6)
C. (1,6)
D. (6,1)

---

80. What are the coordinates of point A?



A. (7,0)
B. (1,8)
C. (8,1)
D. (0,9)

Grade 7 - Level B Items 1 thru 48

MM3-8 ANSW. KEY 73 GRADE 7B 10/04/87

#	OBJ-IT	ANS	#	OBJ-IT	ANS	#	OBJ-IT	ANS
			18	7005-18	1	36	7009-36	3
1	7001-1	1	19	7005-19	1	37	7010-37	3
2	7001-2	3	20	7005-20	2	38	7010-38	4
3	7001-3	3	21	7006-21	2	39	7010-39	1
4	7001-4	2	22	7006-22	1	40	7010-40	1
5	7002-5	4	23	7006-23	3	41	7011-41	3
6	7002-6	2	24	7006-24	4	42	7011-42	3
7	7002-7	3	25	7007-25	4	43	7011-43	2
8	7002-8	1	26	7007-26	3	44	7011-44	4
9	7003-9	1	27	7007-27	3	45	7012-45	1
10	7003-10	3	28	7007-28	1	46	7012-46	1
11	7003-11	3	29	7008-29	3	47	7012-47	1
12	7003-12	4	30	7008-30	2	48	7012-48	2
13	7004-13	4	31	7008-31	1			
14	7004-14	3	32	7008-32	3			
15	7004-15	1	33	7009-33	4			
16	7004-16	3	34	7009-34	3			
17	7005-17	2	35	7009-35	4			

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 7 - Level B Items 49 thru 80

MM3-8 ANSW. KEY 74 GRADE 7B 10/04/87

#	OBJ-IT	ANS	#	OBJ-IT	ANS	#	OBJ-IT	ANS
			18	7017-66	1			
1	7013-49	1	19	7017-67	1			
2	7013-50	2	20	7017-68	2			
3	7013-51	4	21	7018-69	3			
4	7013-52	1	22	7018-70	4			
5	7014-53	3	23	7018-71	2			
6	7014-54	4	24	7018-72	1			
7	7014-55	3	25	7019-73	2			
8	7014-56	4	26	7019-74	3			
9	7015-57	2	27	7019-75	4			
10	7015-58	2	28	7019-76	4			
11	7015-59	4	29	7020-77	4			
12	7015-60	1	30	7020-78	1			
13	7016-61	2	31	7020-79	2			
14	7016-62	3	32	7020-80	3			
15	7016-63	1						
16	7016-64	2						
17	7017-65	1						

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 8
Form A

MATH

WEST BLOOMFIELD SCHOOL DISTRICT

OUTCOME BASED

MASTERY

LEARNING PROGRAM

1. This number 256,000,000 is read as "two hundred fifty-six _____".

   A. hundred
   B. thousand
   C. million
   D. billion

---

2. This number 700,000 is read as "seven hundred _____".

   A. hundred
   B. thousand
   C. billion
   D. trillion

---

3. This number 412,000,000,000 is read as "four hundred twelve _____".

   A. thousand
   B. million
   C. billion
   D. trillion

---

4. This number 11,000 is read as "eleven _____".

   A. thousand
   B. million
   C. billion
   D. trillion

5.

Find 7^2

A. 9
B. 14
C. 49
D. 72

6.

Find 2^4

A. 8
B. 16
C. 24
D. 42

7.

Find 10^5

A. 50
B. 500
C. 10,000
D. 100,000

8.

Find 5^3

A. 15
B. 53
C. 75
D. 125

9. Divide, and show your remainder as a decimal rounded to the nearest tenth:

$6\overline{)13}$

A. 2.1
B. 2.16
C. 2.2
D. 2.26

---

10. Divide, and show your remainder as a decimal rounded to the nearest hundredth:

$7\overline{)25}$

A. 3.1
B. 3.57
C. 3.6
D. 3.67

---

11. Divide, and show your remainder as a decimal rounded to the nearest tenth:

$4\overline{)19}$

A. 4.75
B. 4.8
C. 4.85
D. 5.0

---

12. Divide, and show your remainder as a decimal rounded to the nearest hundredth:

$3\overline{)59}$

A. 19.5
B. 19.66
C. 19.67
D. 19.667

13. How is this problem best rewritten for estimation?

3,136 x 297

A. 3 x 300
B. 4,000 x 200
C. 3,000 x 300
D. 3,000 x 200

---

14. How is this problem best rewritten for estimation?

$$\begin{array}{r} 4{,}912 \\ +\,1{,}886 \\ \hline \end{array}$$

A. $\begin{array}{r} 5{,}000 \\ +\,2{,}000 \\ \hline \end{array}$ **B.** $\begin{array}{r} 4{,}000 \\ +\,1{,}800 \\ \hline \end{array}$ **C.** $\begin{array}{r} 5{,}000 \\ +\,1{,}800 \\ \hline \end{array}$ **D.** $\begin{array}{r} 4{,}000 \\ +\,1{,}900 \\ \hline \end{array}$

---

15. How is this problem best rewritten for estimation?

$$\begin{array}{r} 82{,}115 \\ -\,15{,}036 \\ \hline \end{array}$$

A. $\begin{array}{r} 82{,}000 \\ -\,15{,}000 \\ \hline \end{array}$ **B.** $\begin{array}{r} 90{,}000 \\ -\,10{,}000 \\ \hline \end{array}$ **C.** $\begin{array}{r} 82{,}115 \\ -\,15{,}000 \\ \hline \end{array}$ **D.** $\begin{array}{r} 82 \\ -\,15 \\ \hline \end{array}$

---

16. How is this problem best rewritten for estimation?

513 x 194

A. 5 x 19
B. 500 x 100
C. 50 x 200
D. 500 x 200

ADD

17.

$(-72) + (-104)$

A. -176
B. -32
C. 32
D. 176

18.

$(-37) + (25)$

A. -62
B. -12
C. 12
D. 62

19.

$(41) + (-10)$

A. -51
B. -31
C. 31
D. 51

20.

$(-95) + (-16)$

A. -111
B. -79
C. 79
D. 111

MULTIPLY

21.

$(-12) \times (-3)$

A. -36
B. -4
C. 4
D. 36

22.

$(21) \times (-9)$

A. -189
B. -30
C. 30
D. 189

23.

$(-30) \times (4)$

A. -120
B. -34
C. 34
D. 120

24.

$(-5) \times (-5)$

A. -25
B. -10
C. 0
D. 25

DIVIDE

25.

$(-520) \div (10)$

A. -5200
B. -52
C. 52
D. 5200

26.

$(-51) \div (-17)$

A. -867
B. -3
C. 3
D. 867

27.

$(81) \div (-9)$

A. -729
B. -9
C. 9
D. 729

28.

$(-428) \div (-2)$

A. -856
B. -214
C. 214
D. 856

29. Change to a decimal:

$\frac{2}{5}$

A. 0.04
B. 0.4
C. 0.2
D. 2.5

---

30. Change to a decimal:

$\frac{5}{9}$

A. 0.5
B. 0.55
C. $0.\overline{5}$
D. $5.\overline{9}$

---

31. Change to a decimal:

$\frac{1}{3}$

A. 0.3
B. $0.\overline{3}$
C. 1.3
D. $3.\overline{3}$

---

32. Change to a decimal:

$\frac{3}{4}$

A. 0.3
B. 0.75
C. 3.4
D. $0.\overline{75}$

33. Round to the nearest hundredth:

4.367

A. 4.4
B. 4.36
C. 4.37
D. 4.368

---

34. Round to the nearest tenth:

17.825

A. 17.8
B. 17.9
C. 17.82
D. 17.83

---

35. Round to the nearest thousandth:

0.4169

A. 0.416
B. 0.4169
C. 0.417
D. 0.4179

---

36. Round to the nearest tenth:

0.713

A. 0.7
B. 0.8
C. 0.71
D. 0.714

37. Place the decimal point in the quotient:

$$.3\overline{)4.14}\quad =\quad 1\,38$$

A. 13.8
B. 1.38
C. .138
D. 138.

---

38. Place the decimal point in the quotient:

$$.02\overline{)3.56}\quad =\quad 1\,78$$

A. .178
B. 1.78
C. 17.8
D. 178.

---

39. Place the decimal point in the quotient:

$$1.4\overline{).462}\quad =\quad 33$$

A. .033
B. .33
C. 3.3
D. 33.

---

40. Place the decimal point in the quotient:

$$.05\overline{)7.5}\quad =\quad 1\,5$$

A. .15
B. 1.5
C. 15.
D. 150.

41. Change to a decimal:

49%

A. $\frac{.49}{100}$
B. 4.9
C. .049
D. .49

---

42. Change to a percent:

$\frac{4}{5}$

A. 80%
B. 40%
C. 45%
D. .80%

---

43. Change to a fraction:

75%

A. $\frac{3}{100}$
B. $\frac{3}{4}$
C. $\frac{3}{75}$
D. $\frac{3}{25}$

---

44. Change to a percent:

.09

A. .9%
B. 90%
C. 9%
D. .09%

45. How much simple interest is earned on $350 at 12% annually?

A. $12
B. $42
C. $120
D. $4200

---

46. How much simple interest is earned on $90 at 8% annually?

A. $8
B. $7.20
C. $72
D. $720

---

47. How much simple interest is earned on $2,000 at 6% annually?

A. $6
B. $12
C. $60
D. $120

---

48. How much simple interest is earned on $540 at 10% annually?

A. $10
B. $54
C. $100
D. $5400

49. Which proportion could be used to solve this problem?

"If 12 oz. of peanuts cost 90¢, how much will 15 oz. cost?"

A. $\frac{12}{90} = \frac{x}{15}$ B. $\frac{1}{15} = \frac{x}{90}$ C. $\frac{12}{90} = \frac{15}{x}$ D. $\frac{1}{90} = \frac{x}{15}$

---

50. Which proportion could be used to solve this problem?

"3 record albums cost $24. How much do 7 albums cost?"

A. $\frac{3}{24} = \frac{7}{x}$ B. $\frac{7}{24} = \frac{x}{3}$ C. $\frac{1}{7} = \frac{24}{x}$ D. $\frac{3}{x} = \frac{24}{7}$

---

51. Which proportion could be used to solve this problem?

"3 cookies contain a total of 32 chocolate chips. How many chocolate chips would you expect in 4 cookies?"

A. $\frac{12}{32} = \frac{x}{4}$ B. $\frac{3}{4} = \frac{x}{32}$ C. $\frac{1}{32} = \frac{4}{x}$ D. $\frac{3}{32} = \frac{4}{x}$

---

52. Which proportion could be used to solve this problem?

"2 out of every 15 cars produced are blue. If 3,000 cars are produced, how many will be blue?"

A $\frac{15}{3000} = \frac{x}{2}$ B $\frac{2}{15} = \frac{x}{3000}$ C $\frac{2}{15} = \frac{3000}{x}$ D $\frac{1}{3000} = \frac{x}{15}$

53. Find the value of x:

$\frac{x}{7} = \frac{9}{21}$

A. 1
B. 3
C. 21
D. 27

---

54. Find the value of x:

$\frac{2}{x} = \frac{8}{44}$

A. 8
B. 11
C. 16
D. 22

---

55. Find the value of x:

$\frac{7}{10} = \frac{x}{100}$

A. 10
B. 17
C. 70
D. 700

---

56. Find the value of x:

$\frac{48}{56} = \frac{6}{x}$

A. 7
B. 8
C. 14
D. 448

57. Which unit would you use to measure the length of your backyard?

A. millimeter
B. centimeter
C. meter
D. kilometer

---

58. Which unit would you use to measure the height of a glass of water?

A. centimeter
B. millimeter
C. meter
D. kilometer

---

59. Which unit would you use to measure the volume of juice in a bottle?

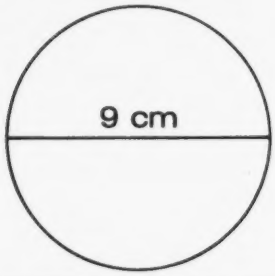
A. meter
B. liter
C. gram
D. hectare

---

60. Which unit would you use to measure the weight of a cupcake?

A. cubic centimeter
B. liter
C. meter
D. gram

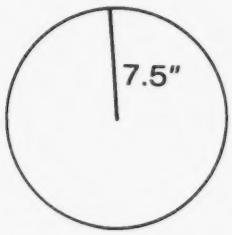
61. Find the circumference of this circle:
(π = 3.14 Circumference = π • d)



A. 2.826 cm
B. 56.52 cm
C. 5.652 cm
D. 28.26 cm

---

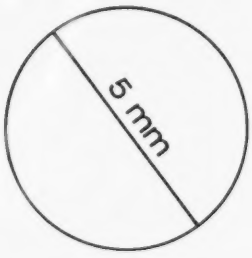
62. Find the circumference of this circle:
(π = 3.14 Circumference = π • d)



A. 23.55 in.
B. 47.1 in.
C. 235.5 in.
D. 471 in.

---

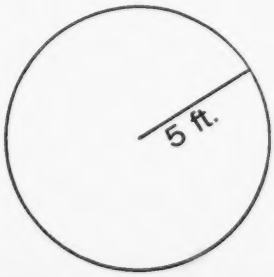
63. Find the circumference of this circle:
(π = 3.14 Circumference = π • d)



A. 31.4 mm
B. 157 mm
C. 15.7 mm
D. 314 mm

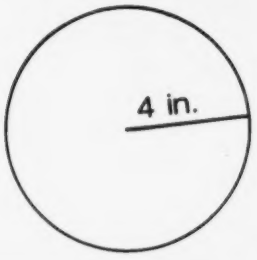
---

64. Find the circumference of this circle:
(π = 3.14 Circumference = π • d)



A. 31.4 ft.
B. 30 ft.
C. 3.70 ft.
D. 300 ft.

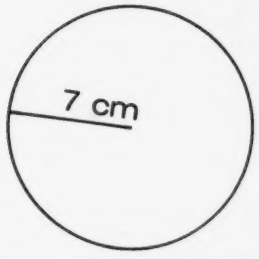
65. Find the area of the circle:
(π = 3.14 Area = $\pi \cdot r^2$)



A. 50.24 in²
B. 25.12 in²
C. 200.96 in²
D. 12.56 in²

---

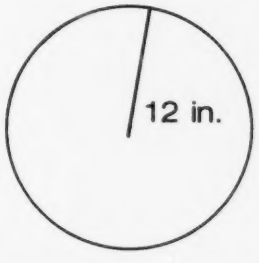
66. Find the area of the circle:
(π = 3.14 Area = $\pi \cdot r^2$)



A. 21.98 cm²
B. 43.96 cm²
C. 153.86 cm²
D. 615.44 cm²

---

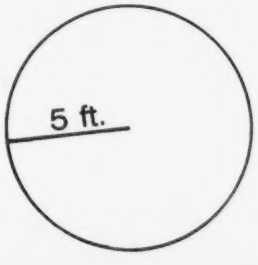
67. Find the area of the circle:
(π = 3.14 Area = $\pi \cdot r^2$)



A. 452.16 in²
B. 37.68 in²
C. 1808.64 in²
D. 75.36 in²

---

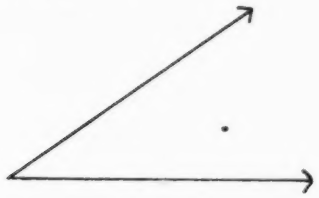
68. Find the area of the circle:
(π = 3.14 Area = $\pi \cdot r^2$)



A. 15.7 ft²
B. 1962.5 ft²
C. 31.4 ft²
D. 78.5 ft²

USE A PROTRACTOR

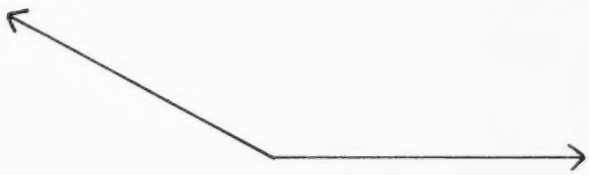
69. What is the degree measure of this angle?



A. 35°
B. 45°
C. 120°
D. 145°

---

70. What is the degree measure of this angle?



A. 28°
B. 32°
C. 140°
D. 152°

---

71. What is the degree measure of this angle?

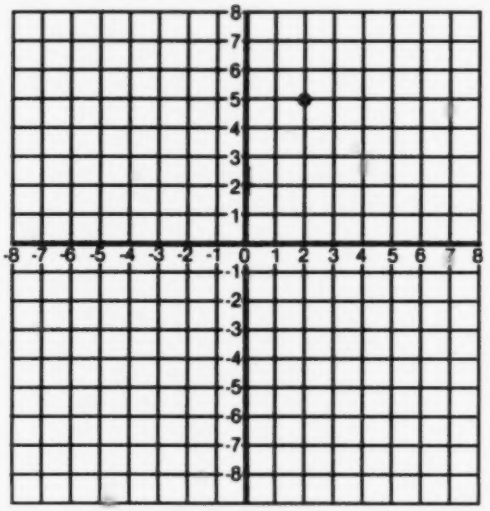
A. 17°
B. 23°
C. 157°
D. 167°

---

72. What is the degree measure of this angle?

A. 50°
B. 70°
C. 110°
D. 120°

73. What are the coordinates of this point?



A. $(-5,2)$

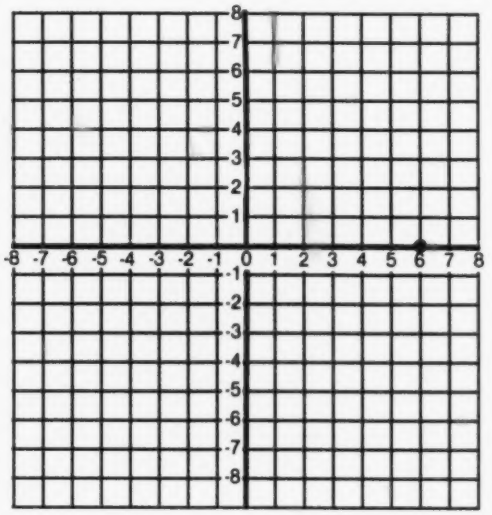
B. $(2,5)$

C. $(-2,-5)$

D. $(5,-2)$

---

74. What are the coordinates of this point?



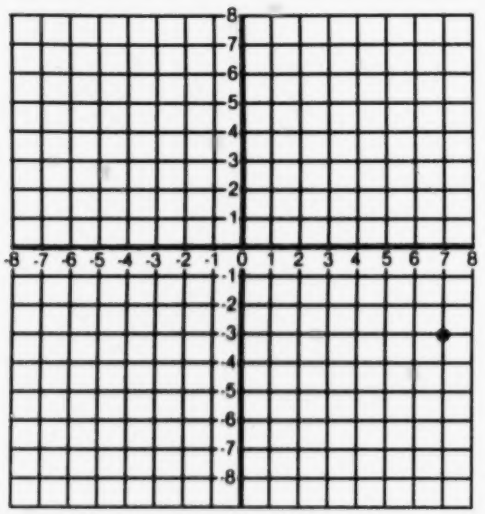
A. $(0,6)$

B. $(-6,0)$

C. $(6,0)$

D. $(0,-6)$

75. What are the coordinates of this point?



A. $(7, -3)$

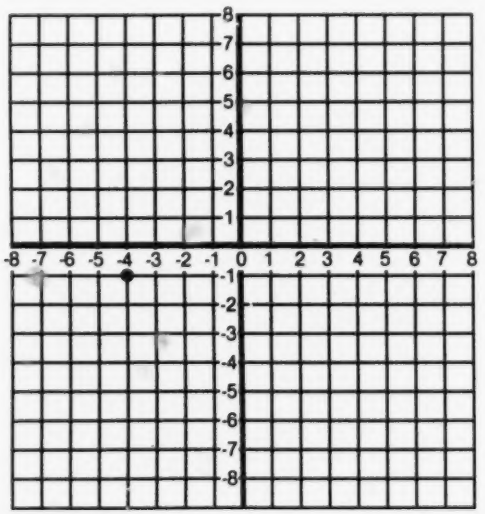
B. $(-7, 3)$

C. $(3, -7)$

D. $(-3, 7)$

---

76. What are the coordinates of this point?



A. $(4, -1)$

B. $(1, -4)$

C. $(1, 4)$

D. $(-4, -1)$

77. Evaluate: where n = 3

$5 \cdot n + 4$

A. 17
B. 19
C. 35
D. 57

---

78. Evaluate: where n = 4

$7 - \frac{24}{n}$

A. 1
B. 3
C. 4
D. 137

---

79. Evaluate: where n = 14

$(n - 9) \cdot 2$

A. 4
B. 5
C. 10
D. −4

---

80. Evaluate: where n = 0

$15 + 3n$

A. 0
B. 15
C. 18
D. 45

Grade 8 - Level A Items 1 thru 48

MM3-8 ANSW. KEY 81 GRADE 8A 10/04/87

#	OBJ-IT	ANS	#	OBJ-IT	ANS	#	OBJ-IT	ANS
			18	8005-18	2	36	8009-36	1
1	8001-1	3	19	8005-19	3	37	8010-37	1
2	8001-2	2	20	8005-20	1	38	8010-38	4
3	8001-3	4	21	8006-21	4	39	8010-39	2
4	8001-4	1	22	8006-22	1	40	8010-40	4
5	8002-5	3	23	8006-23	1	41	8011-41	4
6	8002-6	2	24	8006-24	4	42	8011-42	1
7	8002-7	4	25	8007-25	2	43	8011-43	2
8	8002-8	4	26	8007-26	3	44	8011-44	3
9	8003-9	3	27	8007-27	2	45	8012-45	2
10	8003-10	2	28	8007-28	3	46	8012-46	2
11	8003-11	2	29	8008-29	2	47	8012-47	4
12	8003-12	3	30	8008-30	3	48	8012-48	2
13	8004-13	3	31	8008-31	2			
14	8004-14	1	32	8008-32	2			
15	8004-15	1	33	8009-33	3			
16	8004-16	4	34	8009-34	1			
17	8005-17	1	35	8009-35	3			

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 8 - Level A Items 49 thru 80

MM3-8 ANSW. KEY 82 GRADE 8A 10/04/87

#	OBJ-IT	ANS	#	OBJ-IT	ANS	#	OBJ-IT	ANS
			18	8017-66	3			
1	8013-49	3	19	8017-67	1			
2	8013-50	1	20	8017-68	4			
3	8013-51	4	21	8018-69	1			
4	8013-52	2	22	8018-70	4			
5	8014-53	2	23	8018-71	2			
6	8014-54	2	24	8018-72	3			
7	8014-55	3	25	8019-73	2			
8	8014-56	1	26	8019-74	3			
9	8015-57	3	27	8019-75	1			
10	8015-58	1	28	8019-76	4			
11	8015-59	2	29	8020-77	2			
12	8015-60	4	30	8020-78	1			
13	8016-61	4	31	8020-79	3			
14	8016-62	2	32	8020-80	2			
15	8016-63	3						
16	8016-64	1						
17	8017-65	1						

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 8
Form B

MATH

WEST BLOOMFIELD SCHOOL DISTRICT

OUTCOME BASED

MASTERY

LEARNING PROGRAM

1. This number 29,000 is read as "twenty-nine" _____".

   A. hundred
   B. thousand
   C. million
   D. billion

---

2. This number 610,000 is read as "six hundred ten _____".

   A. thousand
   B. million
   C. billion
   D. trillion

---

3. This number 745,000,000,000 is read as "seven hundred forty-five _____".

   A. hundred
   B. thousand
   C. million
   D. billion

---

4. This number 291,000,000 is read as "two hundred ninety-one _____".

   A. thousand
   B. million
   C. billion
   D. trillion

5.

Find 6^3

A. 9
B. 18
C. 63
D. 216

6.

Find 3^4

A. 7
B. 12
C. 81
D. 256

7.

Find 2^5

A. 10
B. 25
C. 32
D. 64

8.

Find 1^5

A. 1
B. 5
C. 15
D. 100,000

9. Divide, and show your remainder as a decimal rounded to the nearest hundredth:

$3\overline{)14}$

A. 4.2
B. 4.20
C. 4.6
D. 4.67

---

10. Divide, and show your remainder as a decimal rounded to the nearest tenth:

$8\overline{)21}$

A. 2.0
B. 2.6
C. 2.62
D. 2.5

---

11. Divide, and show your remainder as a decimal rounded to the nearest hundredth:

$7\overline{)41}$

A. 5.8
B. 5.85
C. 5.86
D. 5.87

---

12. Divide, and show your remainder as a decimal rounded to the nearest tenth:

$6\overline{)34}$

A. 5.6
B. 5.66
C. 5.67
D. 5.7

13. How is this problem best rewritten for estimation?

$31\overline{)6407}$

A. $30\overline{)6,407}$

B. $31\overline{)6,000}$

C. $30\overline{)6,000}$

D. $31\overline{)6,400}$

---

14. How is this problem best rewritten for estimation?

4,216 x 31

A. 5,000 x 30

B. 4,000 x 40

C. 4,500 x 30

D. 4,000 x 30

---

15. How is this problem best rewritten for estimation?

$73\overline{)1442}$

A. $80\overline{)1,400}$

B. $70\overline{)1,400}$

C. $70\overline{)1,500}$

D. $75\overline{)1,400}$

---

16. How is this problem best rewritten for estimation?

8,193 x 42

A. 8,000 x 45

B. 8,000 x 40

C. 8,000 x 50

D. 8,500 x 40

ADD

17.

$(-18) + (-95)$

A. 113
B. -113
C. 77
D. -77

18.

$(32) + (-40)$

A. -8
B. 8
C. -72
D. 72

19.

$(-21) + (100)$

A. -79
B. 79
C. 121
D. -121

20.

$(-30) + (-63)$

A. -33
B. 33
C. -93
D. 93

MULTIPLY

21.

$(-17) \times (4)$

A. -13
B. 21
C. 68
D. -68

22.

$(-20) \times (-5)$

A. -15
B. 25
C. -100
D. 100

23.

$(32) \times (-6)$

A. 38
B. -38
C. -192
D. 192

24.

$(-11) \times (-11)$

A. 121
B. -121
C. 0
D. -22

DIVIDE

25.

$(324) \div (-2)$

A. 162
B. 648
C. −162
D. −648

26.

$(-65) \div (-5)$

A. 13
B. −13
C. 325
D. −325

27.

$(-204) \div (-51)$

A. −4
B. 10,404
C. −10,404
D. 4

28.

$(-84) \div (7)$

A. −588
B. 588
C. −12
D. 12

29. Change to a decimal:

$\frac{4}{5}$

A. 0.4
B. 0.5
C. 0.8
D. 0.45

---

30. Change to a decimal:

$\frac{2}{3}$

A. 0.2
B. $0.\overline{2}$
C. 0.6
D. $0.\overline{6}$

---

31. Change to a decimal:

$\frac{5}{8}$

A. 0.625
B. 0.5
C. 0.58
D. 1.6

---

32. Change to a decimal:

$\frac{4}{9}$

A. $0.\overline{4}$
B. 0.49
C. 0.4
D. $0.\overline{49}$

33. Round to the nearest thousandth:

6.9213

A. 6.92
B. 6.93
C. 6.921
D. 9.922

---

34. Round to the nearest hundredth:

15.467

A. 15.4
B. 15.48
C. 15.5
D. 15.47

---

35. Round to the nearest tenth:

0.498

A. .4
B. .49
C. .498
D. .5

---

36. Round to the nearest hundredth:

1.3149

A. 1.3
B. 1.31
C. 1.32
D. 1.315

37. Place the decimal point in the quotient:

$$.6\overline{)\,.42}\qquad 7$$

A. .07
B. .7
C. 7.
D. 70.

---

38. Place the decimal point in the quotient:

$$1.4\overline{)\,.476}\qquad 34$$

A. .34
B. 3.4
C. 34.
D. .034

---

39. Place the decimal point in the quotient:

$$.03\overline{)\,6.12}\qquad 204$$

A. .0204
B. 2.04
C. 20.4
D. 204.

---

40. Place the decimal point in the quotient:

$$2.1\overline{)\,6.3}\qquad 3$$

A. .3
B. 3.
C. .03
D. 300.

41. Change to a fraction:

16%

A. $\frac{1}{16}$
B. $\frac{1}{8}$
C. $\frac{4}{25}$
D. $\frac{8}{25}$

---

42. Change to a percent:

$\frac{2}{5}$

A. 25%
B. 20%
C. 40%
D. 250%

---

43. Change to a decimal:

6%

A. .6
B. .60
C. .06
D. 6.0

---

44. Change to a percent:

.17

A. .17%
B. 1.7%
C. 17%
D. 170%

45. How much simple interest is earned on $600 at 8% annually?

A. $8
B. $48
C. $75
D. $4800

---

46. How much simple interest is earned on $215 at 10% annually?

A. $10
B. $21.50
C. $225
D. $2150

---

47. How much simple interest is earned on $4,000 at 12% annually?

A. $4.80
B. $12
C. $480
D. $333.33

---

48. How much simple interest is earned on $63 at 5% annually?

A. $5
B. $3.15
C. $31.50
D. $12.60

49. Which proportion could be used to solve this problem?

"4 tape cassettes cost $18.60. How many cassettes can be bought for $23.25?"

A. $\frac{1}{4} = \frac{23.25}{x}$ B. $\frac{4}{18.60} = \frac{23.25}{x}$ C. $\frac{4}{18.60} = \frac{x}{23.25}$ D. $\frac{4}{23.25} = \frac{x}{18.60}$

---

50. Which proportion could be used to solve this problem?

"2 out of every 9 cars purchased are station wagons. If 16,000 station wagons were produced one month, how many cars in total were produced?"

A. $\frac{x}{2} = \frac{9}{1}$ B. $\frac{9}{2} = \frac{16,000}{x}$ C. $\frac{2}{9} = \frac{16,000}{x}$ D. $\frac{2}{16,000} = \frac{x}{9}$

---

51. Which proportion could be used to solve this problem?

"A cookie recipe calls for 3 cups of flour for 2 dozen cookies. How much flour is needed to make 5 dozen cookies?"

A. $\frac{3}{5} = \frac{1}{x}$ B. $\frac{2}{3} = \frac{x}{5}$ C. $\frac{3}{2} = \frac{x}{5}$ D. $\frac{3}{1} = \frac{x}{5}$

---

52. Which proportion could be used to solve this problem?

"7 oz. of candy cost 80¢. How much candy can you buy for 90¢?"

A. $\frac{7}{80} = \frac{x}{90}$ B. $\frac{7}{90} = \frac{80}{x}$ C. $\frac{1}{80} = \frac{90}{x}$ D. $\frac{80}{90} = \frac{x}{7}$

53. Find the value of x:

$$\frac{13}{14} = \frac{39}{x}$$

A. 14
B. 42
C. 36.21
D. 3

---

54. Find the value of x:

$$\frac{x}{10} = \frac{20}{25}$$

A. 8
B. 2.5
C. 25
D. 200

---

55. Find the value of x:

$$\frac{12}{x} = \frac{120}{30}$$

A. 3
B. 10
C. 12
D. 48

---

56. Find the value of x:

$$\frac{18}{30} = \frac{45}{x}$$

A. 2
B. 60
C. 75
D. 27

57. Which unit would you use to measure the weight of a pen?

A. centimeter
B. liter
C. meter
D. gram

---

58. Which unit would you use to measure the length of a classroom?

A. meter
B. kilometer
C. kilogram
D. liter

---

59. Which unit would you use to measure the volume of gasoline in a can?

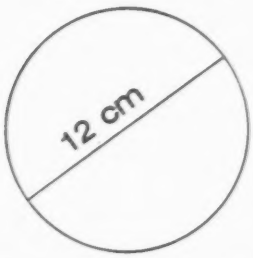
A. centimeter
B. meter
C. gram
D. liter

---

60. Which unit would you use to measure the distance from Detroit to Chicago?

A. gram
B. liter
C. kilogram
D. kilometer

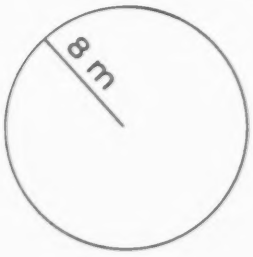
61. Find the circumference of this circle:
(π = 3.14 Circumference = $\pi \cdot$ d)



A. 18.84 cm
B. 37.68 cm
C. 75.36 cm
D. 113.04 cm

---

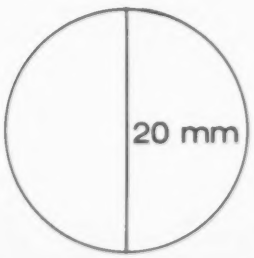
62. Find the circumference of this circle:
(π = 3.14 Circumference = $\pi \cdot$ d)



A. 25.12 m
B. 50.24 m
C. 100.48 m
D. 200.96 m

---

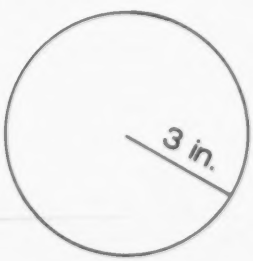
63. Find the circumference of this circle:
(π = 3.14 Circumference = $\pi \cdot$ d)



A. 31.4 mm
B. 62.8 mm
C. 314 mm
D. 1256 mm

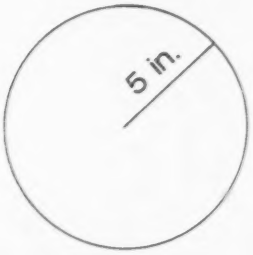
---

64. Find the circumference of this circle:
(π = 3.14 Circumference = $\pi \cdot$ d)



A. 4.71 in.
B. 9.42 in.
C. 18.84 in.
D. 37.68 in.

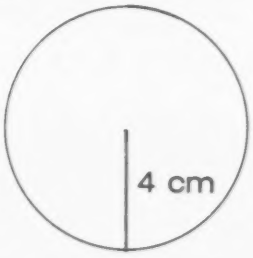
65. Find the area of the circle:
(π = 3.14 Area = $\pi \cdot r^2$)



A. 15.7 in^2
B. 31.4 in^2
C. 78.5 in^2
D. 314 in^2

---

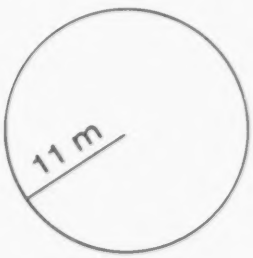
66. Find the area of the circle:
(π = 3.14 Area = $\pi \cdot r^2$)



A. 25.12 cm^2
B. 50.24 cm^2
C. 12.56 cm^2
D. 200.96 cm^2

---

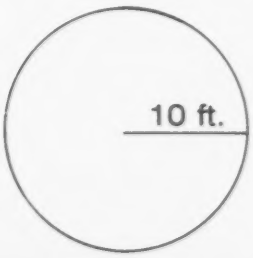
67. Find the area of the circle:
(π = 3.14 Area = $\pi \cdot r^2$)



A. 379.94 m^2
B. 34.54 m^2
C. 69.08 m^2
D. 17.27 m^2

---

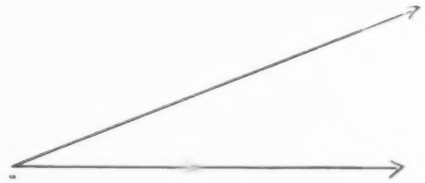
68. Find the area of the circle:
(π = 3.14 Area = $\pi \cdot r^2$)



A. 15.7 ft^2
B. 31.4 ft^2
C. 78.5 ft^2
D. 314 ft^2

USE A PROTRACTOR

69. What is the degree measure of this angle?



A. 22°
B. 18°
C. 162°
D. 158°

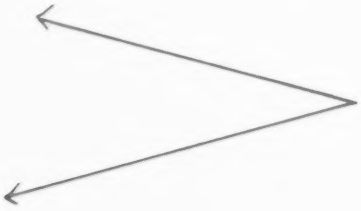
---

70. What is the degree measure of this angle?

A. 27°
B. 33°
C. 157°
D. 153°

---

71. What is the degree measure of this angle?



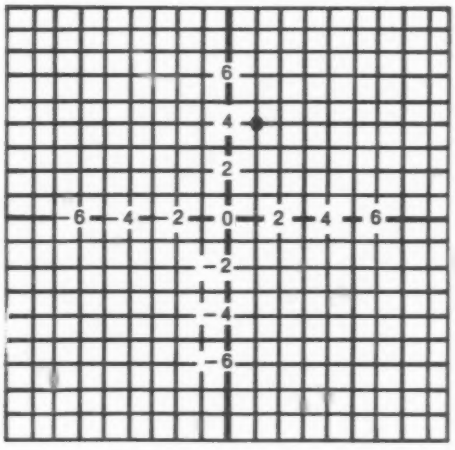
A. 28°
B. 31°
C. 150°
D. 159°

---

72. What is the degree measure of this angle?

A. 4°
B. 94°
C. 86°
D. 104°

73. What are the coordinates of this point?



A. (4,1)

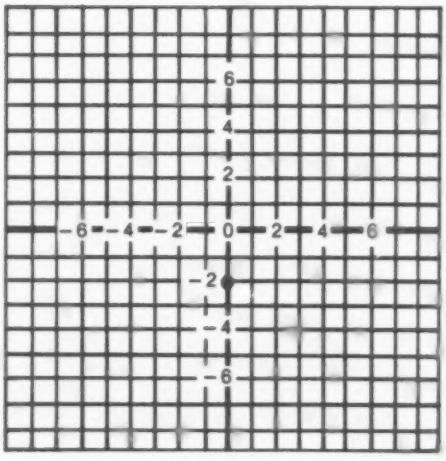
B. (0,4)

C. (1,4)

D. $(-1,4)$

---

74. What are the coordinates of this point?



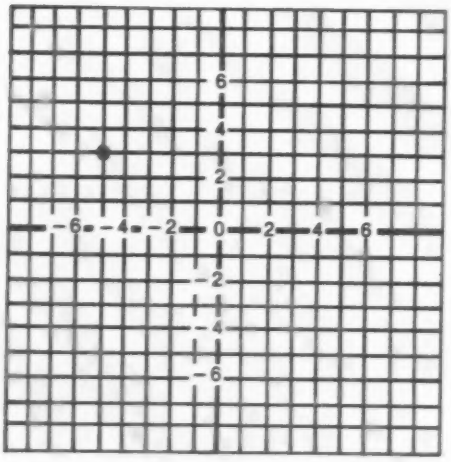
A. (2,0)

B. (0,2)

C. $(-2,0)$

D. $(0,-2)$

75. What are the coordinates of this point?



A. (3,5)

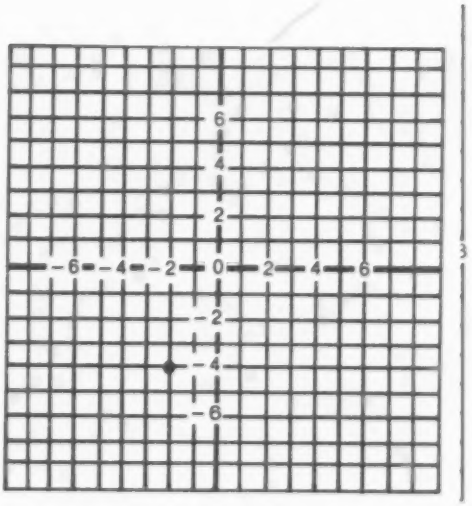
B. (4, −5)

C. (−5,3)

D. (−5,4)

---

76. What are the coordinates of this point?



A. (−2, −4)

B. (−4, −2)

C. (4,2)

D. (2, −4)

77. Evaluate where n = 7

$6 \cdot n + 2$

A. 69
B. 55
C. 44
D. 15

---

78. Evaluate where n = 11

$\frac{33}{n} - 1$

A. 2
B. 3
C. 4
D. 10

---

79. Evaluate where n = 3

$(n + 12) \cdot 2$

A. 72
B. 18
C. 27
D. 30

---

80. Evaluate where n = 9

$15 - \frac{n}{3}$

A. 6
B. 12
C. 24
D. 2